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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/725,178

DATE: 06/06/2001
 TIME: 10:50:10

Input Set : A:\es.txt
 Output Set: C:\CRF3\06062001\I725178.raw

5 <110> APPLICANT: M"ckel, Bettina
 7 Pfefferle, Walter
 11 <120> TITLE OF INVENTION: NOVEL NUCLEOTIDE SEQUENCES ENCODING THE GPM GENE
 15 <130> FILE REFERENCE: 21123/273989
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/725,178
 C--> 19 <141> CURRENT FILING DATE: 2000-11-29
 19 <160> NUMBER OF SEQ ID NOS: 4
 23 <170> SOFTWARE: PatentIn version 3.0
 27 <210> SEQ ID NO: 1
 29 <211> LENGTH: 1020
 31 <212> TYPE: DNA
 33 <213> ORGANISM: Corynebacterium glutamicum
 37 <220> FEATURE:
 39 <221> NAME/KEY: CDS
 41 <222> LOCATION: (181)..(924)
 45 <400> SEQUENCE: 1

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48	accgccgcac agctatcgctc gctgtacaac gacgctattg ccaacgaaaa tgctcgacggt	120
50	gaaacgcatc acggctaagt aaacgcgcgt cgtggaacat aaagtggcaa actagtacct	180
52	atg act aac gga aaa ttg att ctt ctt cgt cac ggt cag agc gaa tgg	228
53	Met Thr Asn Gly Lys Leu Ile Leu Leu Arg His Gly Gln Ser Glu Trp	
54	1 5 10 15	
56	aac gca tcc aac cag ttc act gga tgg gtc gac gtc aat ctg acc gaa	276
57	Asn Ala Ser Asn Gln Phe Thr Gly Trp Val Asp Val Asn Leu Thr Glu	
58	20 25 30	
60	cag ggt gag gct gag gcc aag cgc gga ggc gaa ctc ctc gtc gag gca	324
61	Gln Gly Glu Ala Glu Ala Lys Arg Gly Gly Glu Leu Val Glu Ala	
62	35 40 45	
64	ggc gtc ctc cca ggc gtt gta tac acc tcc ttg ctg cgt cgc gcg atc	372
65	Gly Val Leu Pro Gly Val Val Tyr Thr Ser Leu Leu Arg Arg Ala Ile	
66	50 55 60	
68	cgc act gca aac atc gca ctg aac gct gca gac cgc cac tgg atc cca	420
69	Arg Thr Ala Asn Ile Ala Leu Asn Ala Ala Asp Arg His Trp Ile Pro	
70	65 70 75 80	
72	gtg atc cgc gac tgg cgc ctc aac gag cgt cac tac ggc gca ctg cag	468
73	Val Ile Arg Asp Trp Arg Leu Asn Glu Arg His Tyr Gly Ala Leu Gln	
74	85 90 95	
76	ggc ctt gac aag gct gca acc aag gaa aaa tac ggc gac gac cag ttc	516
77	Gly Leu Asp Lys Ala Ala Thr Lys Glu Lys Tyr Gly Asp Asp Gln Phe	
78	100 105 110	
80	atg gaa tgg cgc cgc tcc tac gac acc cca cca cca gag ctc gcg gat	564
81	Met Glu Trp Arg Arg Ser Tyr Asp Thr Pro Pro Pro Glu Leu Ala Asp	
82	115 120 125	
84	gac gca gag tac tcc cag gca aat gac cct cgt tac gcg gac ctc gac	612
85	Asp Ala Glu Tyr Ser Gln Ala Asn Asp Pro Arg Tyr Ala Asp Leu Asp	
86	130 135 140	
88	gta gtt cca cgc acc gaa tgc ctc aag gac gtt gtg gtt cgt ttt gtt	660

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89 Val Val Pro Arg Thr Glu Cys Leu Lys Asp Val Val Val Arg Phe Val
90 145 150 155 160 708
92 cct tac ttc gag gaa gaa atc ctg cca cgc gca aag aag ggc gaa acc
93 Pro Tyr Phe Glu Glu Glu Ile Leu Pro Arg Ala Lys Lys Gly Glu Thr
94 165 170 175 756
96 gtc ctc atc gca gca cac ggc aac tcc ctg cgt gcg ctg gtt aag cac
97 Val Leu Ile Ala Ala His Gly Asn Ser Leu Arg Ala Leu Val Lys His
98 180 185 190 804
100 ctt gac ggc atc tcc gat gct gat atc gca gag ctc aac atc cca acc
101 Leu Asp Gly Ile Ser Asp Ala Asp Ile Ala Glu Leu Asn Ile Pro Thr
102 195 200 205 852
104 ggc atc cca ctg gtc tac gaa atc gcc gaa gac ggt tcc gta gta aac
105 Gly Ile Pro Leu Val Tyr Glu Ile Ala Glu Asp Gly Ser Val Val Asn
106 210 215 220 900
108 cca ggc ggc acc tac ctc gat cct gag gca gca gca gcc ggc gca gca
109 Pro Gly Gly Thr Tyr Leu Asp Pro Glu Ala Ala Ala Ala Gly Ala Ala
110 225 230 235 240 954
112 gca gta gca aac cag ggt aat aag tagctatttg taggtgagca ctcttcttgc
113 Ala Val Ala Asn Gln Gly Asn Lys
114 245 1014
116 ttctcgtattg ggcgtgggtcc tcatgggcct cgccctacct gcgtatacga aaattaaaga 1020
118 tcggat
121 <210> SEQ ID NO: 2
123 <211> LENGTH: 248
125 <212> TYPE: PRT
127 <213> ORGANISM: Corynebacterium glutamicum
131 <400> SEQUENCE: 2
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138 20 25 30
141 Gln Gly Glu Ala Glu Ala Lys Arg Gly Gly Glu Leu Leu Val Glu Ala
142 35 40 45
145 Gly Val Leu Pro Gly Val Val Tyr Thr Ser Leu Leu Arg Arg Ala Ile
146 50 55 60
149 Arg Thr Ala Asn Ile Ala Leu Asn Ala Ala Asp Arg His Trp Ile Pro
150 65 70 75 80
153 Val Ile Arg Asp Trp Arg Leu Asn Glu Arg His Tyr Gly Ala Leu Gln
154 85 90 95
157 Gly Leu Asp Lys Ala Ala Thr Lys Glu Lys Tyr Gly Asp Asp Gln Phe
158 100 105 110
161 Met Glu Trp Arg Arg Ser Tyr Asp Thr Pro Pro Pro Glu Leu Ala Asp
162 115 120 125
165 Asp Ala Glu Tyr Ser Gln Ala Asn Asp Pro Arg Tyr Ala Asp Leu Asp
166 130 135 140
169 Val Val Pro Arg Thr Glu Cys Leu Lys Asp Val Val Val Arg Phe Val
170 145 150 155 160
173 Pro Tyr Phe Glu Glu Glu Ile Leu Pro Arg Ala Lys Lys Gly Glu Thr
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/725,178

DATE: 06/06/2001

TIME: 10:50:11

Input Set : A:\es.txt

Output Set: C:\CRF3\06062001\I725178.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date



Creation date: 10-03-2003
Indexing Officer: KNGUYEN6 - KIM NGUYEN
Team: OIPEBackFileIndexing
Dossier: 09725178

Legal Date: 06-21-2001

		Number of pages
No.	Doccode	1
1	C.AD	

Total number of pages: 1

Remarks:

Order of re-scan issued on